

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE MODIFICATION OF THE TRAFFIC SIGNAL AT THE INTERSECTION OF MD 28 (W. MONTGOMERY AVENUE) AT DARNESTOWN ROAD IN MONTGOMERY COUNTY. THE MODIFICATION INCLUDES THE INSTALLATION OF LED VEHICULAR SIGNAL HEADS, ACCESSIBLE PUSHBUTTONS AND COUNTDOWN LED PEDESTRIAN SIGNALS ACROSS THE SOUTH AND WEST LEGS.

MD 28 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA FOUR PHASE, FULLY-ACTUATED TRAFFIC MODE. THE EXISTING WESTBOUND EXCLUSIVE LEFT TURN, AND NORTHBOUND RIGHT-TURN WILL OPERATE CONCURRENTLY AND MAINLINE PEDESTRIAN PHASES WILL REMAIN. THE SIDE STREET EAST LEG ALTERNATE PEDESTRIAN PHASE WILL BE REMOVED. A SIDE STREET WEST LEG ALTERNATE PEDESTRIAN PHASE IS PROPOSED.

CONTROLLER REQUIREMENTS

THE EXISTING BASE MOUNTED CABINET, CONTROLLER, EQUIPMENT AND ASSOCIATED HARNESSES SHALL REMAIN. THE MONTGOMERY COUNTY SIGNAL SHOP WILL INSTALL ONE (1) 2 WIRE CENTRAL CONTROL UNIT WITHIN THE CABINET.

APS WILL FUNCTION AS FOLLOWS:

FOR W. MONTGOMERY AVENUE

A. WHEN A PEDESTRIAN LOCATES AND PRESSES THE PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON MESSAGE WILL BE "WAIT TO CROSS W. MONTGOMERY AT DARNESTOWN."

B. WHEN THE "WALK" PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK, WHICH WILL LAST FOR THE DURATION OF THE "WALK" PHASE.

FOR DARNESTOWN ROAD

A. WHEN A PEDESTRIAN LOCATES AND PRESSES THE PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON MESSAGE WILL BE "WAIT TO CROSS DARNESTOWN AT W. MONTGOMERY."

B. WHEN THE "WALK" PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK, WHICH WILL LAST FOR THE DURATION OF THE "WALK" PHASE.

THE CONTACT PERSONS FOR DISTRICT #3 / OOTS/ MONT. COUNTY ARE AS FOLLOWS:

District #3

Mr. Jeff Wentz
Assistant District Engineer - Traffic
Phone: 301-513-7358

Mr. Augie Rebish
District Utility Engineer
Phone: 301-513-7350

Mr. Vernon Stinnett, Jr.
Assistant District Engineer - Maintenance
Phone: 301-513-7304

Mr. Kevin Nowak
Assistant District Engineer - Construction
Phone: 301-513-7336

Office Of Traffic & Safety

Mr. Richard L. Daff Sr.
Chief, Traffic Operations Division
Phone: 410-787-7630

Mr. Robert Snyder
Assistant Division Chief, Traffic Operations
410-787-7630

Mr. Edward Rodenhizer
Team Leader Signal Operations
Phone: 410-787-7650

Mr. Eugene Bailey
Team Leader Sign Operations
410-787-7670

Montgomery County

Mr. Kamal Hamud
Montgomery County Traffic Engineering
Phone: 240-777-8761

Mr. Keith Lord
Montgomery County Signal Shop
Phone: 301-279-1290

The Power Company Representative Is:
Potomac Electric Power Company
8300 Old Marlboro Pike
Upper Marlboro, Maryland 20772
Phone: 301-961-5325

EQUIPMENT LIST 'A'

EQUIPMENT TO BE FURNISHED BY THE SHA.

ITEM NO.	QUANTITY	DESCRIPTION
9571	33 SF	UPDATED] SHEET ALUMINUM MAST ARM/ POLE MOUNTED SIGN
		1 EA - SHIELD ASSEMBLY (24 IN. x 51 IN.) "EAST, MD 28, RIGHT ARROW"
		1 EA - SHIELD ASSEMBLY (36 IN. x 75 IN.) "WEST, MD 28, ADVANCED LEFT ARROW"
		4 EA - R10-3(1) (9 IN. x 15 IN.) "PUSH BUTTON TO CROSS W. MONTGOMERY AVE."
		2 EA - R10-3(1) (9 IN. x 15 IN.) "PUSH BUTTON TO CROSS DARNESTOWN ROAD"

EQUIPMENT LIST 'C'

EQUIPMENT TO BE REMOVED AND RETURNED TO SHA.

ITEM NO.	QUANTITY	DESCRIPTION
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NONE - ALL REMOVED EQUIPMENT SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

EQUIPMENT LIST 'B'

EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

ITEM NO.	QUANTITY	DESCRIPTION
1001	2 EA	MAINTENANCE OF TRAFFIC
2002	3 CY	TEST PIT EXCAVATION
5001	925 LF	REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS - ANY WIDTH
5003	35 LF	5 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES
5005	410 LF	12 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKINGS
5006	100 LF	24 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKINGS
6001	270 LF	STANDARD TYPE A COMBINATION CURB AND GUTTER 12 INCH GUTTER PAN 8 INCH CURB
6002	1200 SF	5 INCH CONCRETE SIDEWALK
8001	34 EA	12 INCH LED SIGNAL HEAD SECTION
8002	1 EA	2 WIRE CENTRAL CONTROL UNIT
8006	2 EA	ADJUST HANDHOLE TO GRADE
8007	6 EA	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION AND SIGNS
8008	6 EA	BREAKAWAY PEDESTAL POLE (ANY SIZE)
8010	6 EA	LED 16 INCH COUNTDOWN PEDESTRIAN SIGNAL HEAD
8013	1 EA	REMOVE & DISPOSE OF EQUIPMENT (PER ASSIGNMENT)
8017	65 LF	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT - SLOTTED
8018	80 LF	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8019	70 SF	DETECTABLE WARNING SURFACES
8022	1 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8023	1240 LF	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
8025	1180 LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
8026	350 LF	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)
8033	200 LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
8034	48 SF	INSTALL OVERHEAD SIGN
8035	25 LF	REMOVAL AND DISPOSAL OF EXISTING TRAFFIC W-BEAM
8036	2 EA	REMOVE AND RESET SINGLE BUFFER END TREATMENTS

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)						
PHASE 5 ALT.	R	R	R	←G←	←G←	R	R	R	R	R	DW	DW	DW	DW	WK	WK
PED CLEARANCE	R	R	R	←G←	←G←	R	R	R	R	R	DW	DW	DW	DW	FLDW	FLDW
PHASE 5 ALT. CHANGE	R	R	R	←G←	←G←	R	R	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 2 & 5	R	R	R	←G←	←G←	G	G	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 5 CHANGE	R	R	R	←Y←	←Y←	G	G	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 2 & 6	G	G	G	←R←	←R←	G	G	R	R	R	WK	WK	DW	DW	DW	DW
PED CLEARANCE	G	G	G	←R←	←R←	G	G	R	R	R	FLDW	FLDW	DW	DW	DW	DW
PHASE 2 & 6 CHANGE	Y	Y	Y	←R←	←R←	Y	Y	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 4	R	R	R	←R←	←R←	R	R	G	G	G	DW	DW	DW	DW	DW	DW
PHASE 4 CHANGE	R	R	R	←R←	←R←	R	R	Y	Y	Y	DW	DW	DW	DW	DW	DW
PHASE 4 ALT.	R	R	R	←R←	←R←	R	R	G	G	G	DW	DW	WK	WK	DW	DW
PED CLEARANCE	R	R	R	←R←	←R←	R	R	G	G	G	DW	DW	FLDW	FLDW	DW	DW
PHASE 4 ALT. CHANGE	R	R	R	←R←	←R←	R	R	Y	Y	Y	DW	DW	DW	DW	DW	DW
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/RA	FL/RA	FL/Y	FL/Y	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK	DARK	DARK

TOD NO: XX427-03
SHA NO: MO228A51/B51
MD 28@ DARNESTOWN RD

SHA

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MD 28 (W. MONTGOMERY AVENUE)
AT DARNESTOWN ROAD
ROCKVILLE, MD

GENERAL INFORMATION

SCALE: NONE ADVERTISED DATE: 5/20/09 CONTRACT NO.: XX4275185

DESIGNED BY: MCG COUNTY: MONTGOMERY
DRAWN BY: MCG LOGMILE: 15002820.42
CHECKED BY: BAB TMS NO.: J440
F.A.P. NO.: TOD NO.:

TS NO3339-A-GI DRAWING SG-02 OF 02 SHEET NO. 2 OF 2

STV Incorporated

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BY: WSTROUD

PLOTTED: Tuesday, June 23, 2009 AT 11:01 AM
FILE: J:\DATA\J440\J440G02.dgn